

<sup>1</sup> *Okhotsk Sea Ice Museum of Hokkaido, Mombetsu, Japan*

In addition, we can read various features from the graphs.

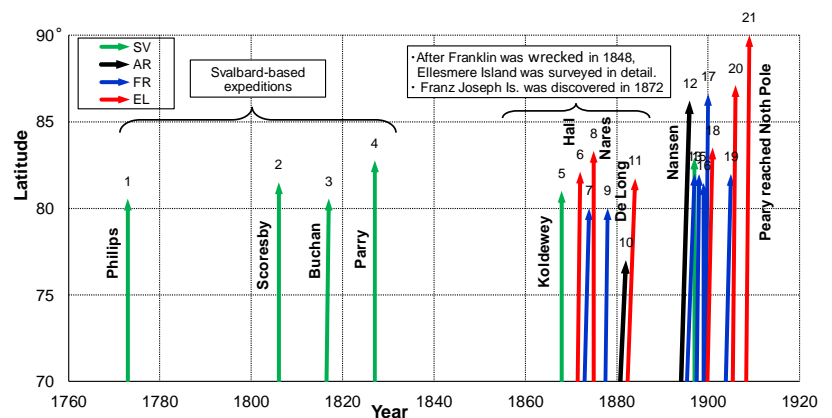


Figure 1. Main expedition's routes in the Arctic Ocean

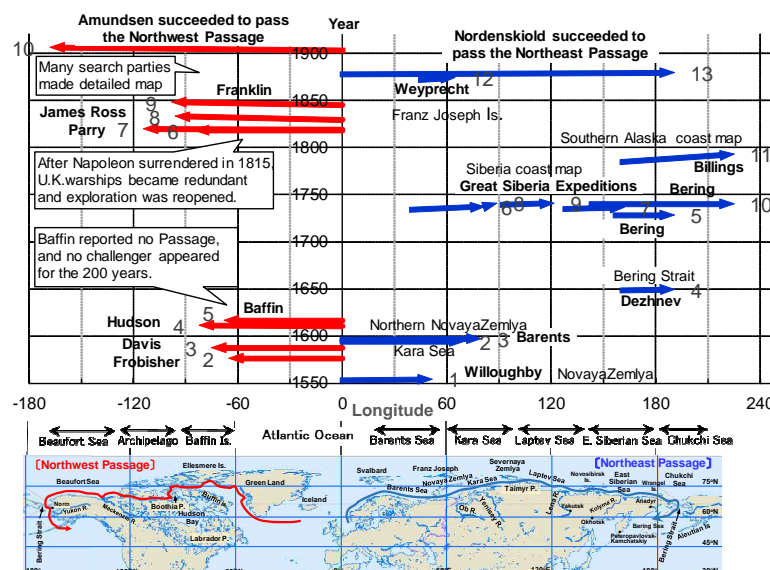


Figure 2. The arrival longitude of each expedition and its year (minus longitude means in west). Red arrows are for the Northwest Passage expeditions and blue arrows are for the Northeast Passage. The longitude of the graph is the same with the lower map. A red line in the map shows the Amundsen's Northwest Passage and a blu line shows the Nordenskiöld's Northeast Passage.